

REQUEST FOR PROPOSAL

Main project head: Establishment of Television studio at CM's House, Raipur, Chhattisgarh.

Title of the RFP work: Supply, installation, testing, commissioning of HD TV studio setup at CM's House, Raipur, Chhattisgarh.

Dated: 18th August 2014



Broadcast Engineering Consultants India Ltd,

(A Government of India enterprise)

Corporate office: BECIL Bhavan, 56-A/17, Block-C, Sector-62, Noida-201301

Regional Office, A#7, Ranka Villas, Bilekahalli, Off Bannerghatta road, Bangalore, 560076

www.becil.com

Request for proposal (RFP)

RFP work: Supply, installation, testing, commissioning of HD TV studio setup at CM's House, Raipur, Chhattisgarh on turnkey basis.

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RFP FOR SITC OF HD STUDIO SETUP AT CM'S OFFICIAL RESIDENCE, RAIPUR, CHHATTISGARH ON TURNKEY BASIS.

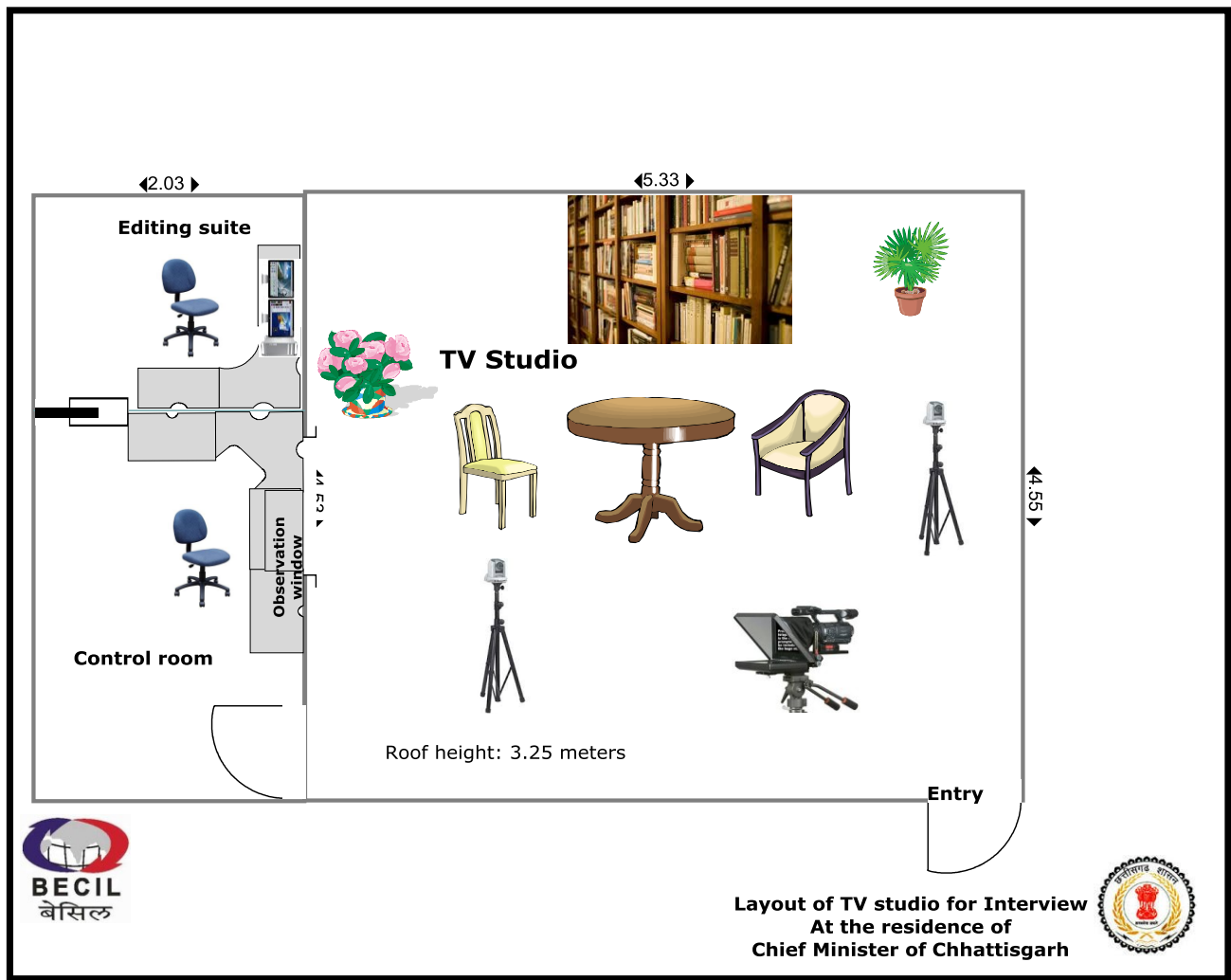
GENERAL TERMS AND CONDITIONS

1. General.

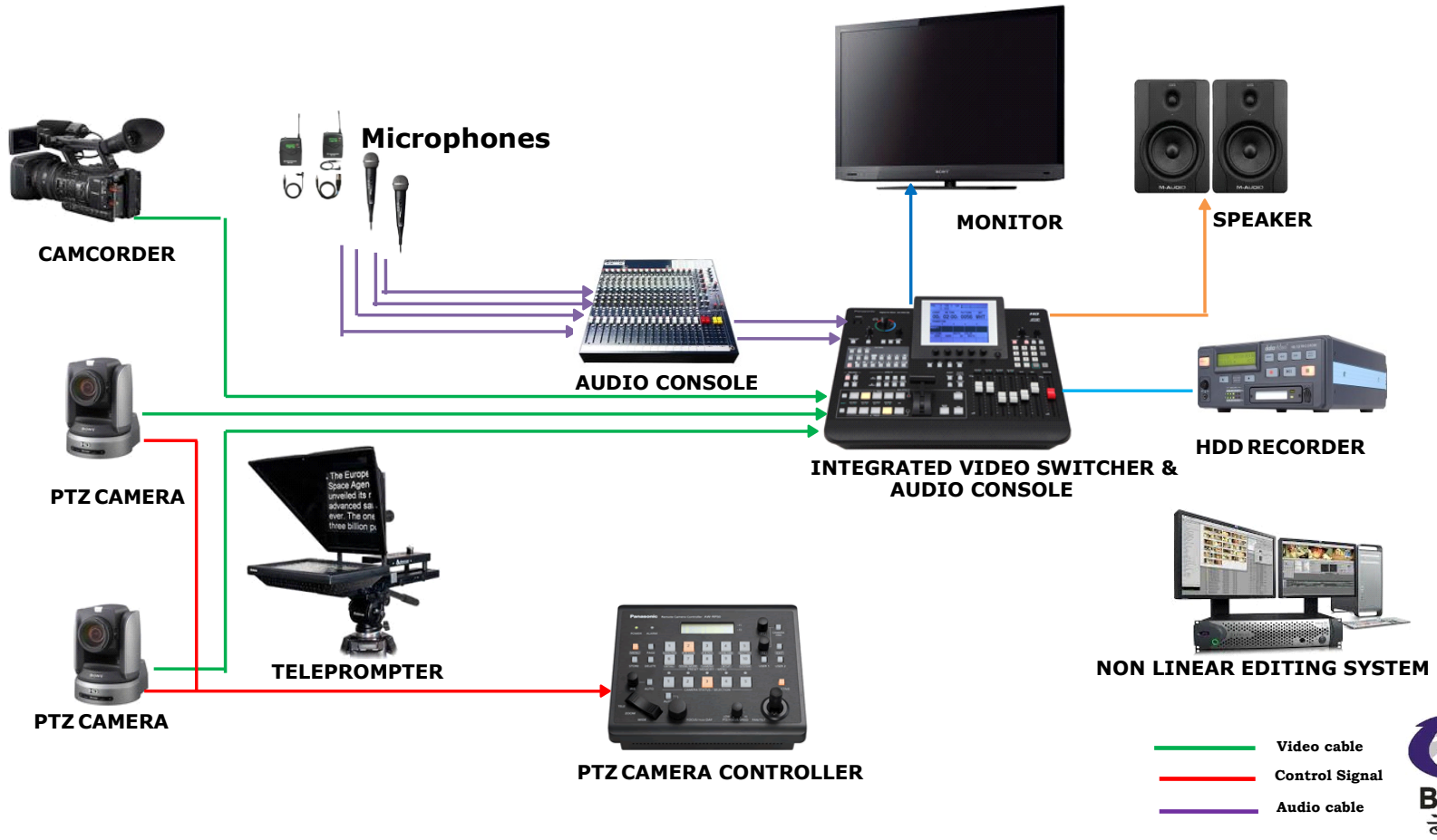
1.1. About Broadcast Engineering Consultants India Ltd. (BECIL): BECIL is established by Ministry of Information and Broadcasting, Government of India in the year 1995. BECIL is a company **wholly owned** by Government of India and is accorded with Mini Ratna status for its consistent performance. Also, BECIL has ISO 9001-2008 certification for their processes on consultancy services and turnkey solutions in these sectors. Over the years, BECIL has successfully provided consultancy and project execution services for number of prestigious projects in Government and private sectors and has been recognized by the industry as one of the leading companies in this sector. For details, please visit www.becil.com

1.2. Background and brief on the current scope of the project: *Chhattisgarh Samvad*- an autonomous society established by Government of Chhattisgarh has signed a memorandum of understanding with BECIL for providing consultancy and project execution services for establishment of Television studio along with auxiliary facilities on turnkey basis at the official residence of Chief Minister of the State of Chhattisgarh.

In today's world, electronic media plays important role in communication and dissemination of information to the public. Hence, Chief Minister of the Chhattisgarh who is also chief executive of the State would like to have appropriate media facilities at the premises of his official residence so that, his address to the citizens of his State using electronic media can be recorded and distributed for broadcast purposes and also can be archived. This facility can also be used for recording and distribution of content like interview, panel discussion etc using Television media. For this purpose, a small sized TV studio with recording and post production editing facilities is proposed to be established at his official residence. The quality of the content produced at the proposed facility will be of high definition standard and good enough for broadcast over TV channels. The content can also be archived for posterity.



BLOCK SCHEMATIC DIAGRAM FOR TV STUDIO AT CM HOUSE, RAIPUR, CHHATTISGARH



1.3 RFP schedule: RFP schedule is as follows:

Issue of RFP notification	18 th August 2014
Site visit	Before 13 th Sept 2014 on appointment with BECIL's site engineer at Raipur
Last date for submission of queries, if any by the prospective bidders	13 th Sept 2014.
Submission of proposals	Before 14:30 Hrs of 22 nd September 2014
Opening of the technical Bids	At 1500 Hrs on 22 th September 2014
Opening of the financial Bids	To be intimated later
Project site	CM's House, Civil Line, Raipur, Chhattisgarh, 492001
BECIL's site engineer at Raipur	Sri Chandan Kumar Singh, Junior Manager, BECIL, Raipur, Mobile: 07566621021, chandan@becil.com

1.4 Procedure for submission of bids and terms and conditions:

- 1.4.1. Bidders are required to download RFP document from website of the Company www.becil.com go through the RFP document carefully and seek details and clarification from the tenderers in case doubt. The tender is for turn-key, comprehensive and optimum solution i.e. supply, installation, testing, commissioning and training with **standard one year** warranty.
- 1.4.2. The proposals are to be submitted on **Two Bid basis** with separate Technical (Part – I) and Financial Bids (Part – II) sealed in separate envelopes clearly marked on the respective envelopes as “Technical Bid” and “Financial Bid”, respectively and then submitted in a sealed cover clearly marked **“bids for Supply, installation, testing, commissioning and training of HD TV studio at CM's House, Raipur, Chhattisgarh on turnkey basis”**. *The EMD and Tender Fee for the tender shall be enclosed along with the Technical Bid only.*
- 1.4.3. While submitting the Technical Bid all bidders will strictly adhere to the sequence of documents as mentioned in check list vide **annexure 3.13**. **Each page** of the technical and commercial bid document should be properly indexed, paginated,

stamped, ink signed by the authorized signatory. The entire document should be firmly bound and sealed.

- 1.4.4. The financial bid should be submitted in the exactly same format as prescribed in annexure 3.11 of this document.** If the bidder envisages additional items are required for over and above the suggested one for providing the complete solution as envisaged by BECIL, they are at liberty to provide additional items over and above the one mentioned in the document. However, while deciding the lowest bid, the entire offer will be considered including any additional item quoted by the bidder for providing complete solution as per the scope of the project.
- 1.4.5.** Bid responses must be addressed **Sri R. Narasimha Swamy, General Manager, BECIL Regional office, Villa A#7, Ranka Colony, Off Bannerghatta Road, Bilekahalli, Bangalore-560076, Karnataka** and dropped in the tender box kept in the reception counter at BECIL Regional office. The bids can also sent by India Post or courier, but the bidder has to ensure that, the document reaches the above address before the opening time and date.
- 1.4.6.** For queries, bidders can contact **R. Narasimha Swamy, General Manager, BECIL Regional office, Bangalore** preferably over his email: rn.swamy@becil.com or +91-9880197441 or in person on appointment.
- 1.4.7.** Separately sealed bids, both technical and financial, in a single sealed cover should reach the above address on or before **14.30 hours on 22nd September 2014** either by hand or India Post or courier. If 22nd September 2014 happens to be public holiday, it will be opened on next working day. This will communicated over the BECIL website. Hand delivered offer can be dropped in the tender box maintained in the reception desk of BECIL Regional office. Bidder has to ensure that, the offers sent by Post/Courier reaches before the due date and time. BECIL will not be responsible for late delivery by Post/Courier. Bids submitted after the expiry of the above time will not be considered. It shall be responsibility of the bidder to ensure that the bid submitted on time and at proper place before the deadline. Bids submitted through fax and e-mails or any other means will not be considered. Similarly **unsigned and bids without EMD will be forthright rejected.**

- 1.4.8.** Technical bids (Part – I) shall be opened on the same day at **1500 hours** in the presence of bidders who may choose to be present.
- 1.4.9. BID VALIDITY:** All bids are to remain valid for a period of **Three (3) months** from the date of submission.
- 1.4.10.** At any time prior to the last date in respect of bids, BECIL may for any reason whether at its own initiative or in response to a clarification requested by prospective bidder / bidders modify the RFP by an amendment which shall be notified through the official website of BECIL - www.becil.com and will be binding on the bidders. Therefore, it is advised that the prospective bidders frequently visit the website and take note on any amendments during the bid process.
- 1.4.11.** BECIL reserves the right to either increase or decrease the quantity of any or all the items included in suggestive bill of materials which are estimated requirements and therefore open to variation.
- 1.4.12.** BECIL reserves the right to alter/modify the scope of work mentioned in this RFP documents at any state of the bidding process and contract.
- 1.4.13.** The project site is at CM House, Civil Line, Raipur, Chhattisgarh and as such all material to be delivered and work carried out at the site. The Financial Bid (Part – II) shall clearly intimate the price to be charged without any qualification whatsoever and should include all packing and forwarding, transportation, transit insurance, taxes, duties, fees, levies and other charges as may be applicable in relation to the activities proposed to be carried out at the above site. All such charges should be included in the rates quoted. Price escalation due to currency variation will not be entertained.
- 1.4.14.** The successful bidder shall keep BECIL informed of the progress on each activity on weekly basis. In case of any delay in any particular activity, the recovery plan shall be evolved and given to BECIL for ensuring completion of all the activities within the overall time schedule specified by BECIL. BECIL reserves the right to terminate the contract at any stage of the work by giving 14 days notice if it is noticed that the delay occurred in any of the activities covered under the contract cannot be made good and will affect the overall work schedule. BECIL shall forfeit

the performance Bank Guarantee of the bidder. The decision of BECIL shall be final and binding. In case contract is terminated BECIL will have right to get the work done on cost and risk of successful bidder.

- 1.4.15.** BECIL reserves the right to monitor the progress and review it on day-to-day basis. The successful bidder will be fully transparent, responsive and demonstrate at all time that he is in position to complete the work as per the specified time schedule.
- 1.4.16.** The successful bidder shall be entirely responsible for the security of his personnel, material, plant and equipments. No extra cost shall be allowed to the successful bidder in the event to any damage occurring to the successful bidders or any of his sub successful bidders personnel, materials, plant and equipment whether stored on site or offsite. In the event of any damage to the person or property of CM House, the same shall be made good by the successful bidder on its cost and risk.
- 1.4.17.** The successful bidder shall ensure that it has at all time a competent and qualified representative available at site during the working period for the duration of the contract. Any direction given to successful bidder's representative shall be deemed to have been given to the successful bidder.
- 1.4.18.** The bidder will provide a list of engineers along with the Technical Bid to be engaged for this work with their academic and professional qualification in the field of broadcast logging, experience etc.
- 1.4.19.** BECIL reserves the right to solicit additional information from Bidders to evaluate which Bid best meets the needs of the Project. Additional information may include, but is not limited to, past performance records, lists of clients and their feed-back, product catalogues, service manuals, drawings etc., or any other pertinent information.
- 1.4.20.** Additional questions, if any, should be submitted in writing to the RFP Coordinator at the address given above, or via e-mail to rn.swamy@becil.com It will be the bidder's responsibility to periodically check for any updated information regarding this tender on BECIL website www.becil.com

- 1.4.21.** BECIL will make its decision based on the ability of the Bidder(s) to meet specific needs of the project, technical expertise of the Bidder(s), delivery capabilities, customer references, past satisfactory performance and experience, system completeness, etc., besides cost.
- 1.4.22.** BECIL reserves the right to waive off any deviations; accept the whole or part thereof, accept or reject any or all bids; and to select the Bidder(s) which, in the sole opinion of the Project-In-charge, best meets the requirements of the project. However the bidders whose bids have been rejected may approach BECIL to know the reason of their rejection.
- 1.4.23.** BECIL reserves the right to negotiate terms of any agreement resulting from this request for proposal to meet the project needs.
- 1.4.24.** All information contained in this RFP, or provided in subsequent discussions or disclosures, is proprietary and confidential. No information may be shared with any other organization, without prior written consent of the RFP Coordinator.
- 1.4.25.** The RFP issued is for *Supply, installation, testing, commissioning and training of HD TV studio on turnkey basis. The bidder is responsible for completeness of the project in case bidder has not quoted any item/equipment required for completeness of the project, bidder will provide the said item/equipment Free of Cost (FOC).*

1.5 Eligibility Criteria: The bidder shall fulfil the following eligibility conditions to bid for this tender:

- 1.5.1.** Average Annual financial turnover from similar work should be at least 30% of the estimated cost during the last 3 years, ending 31st March of the previous financial year,
- 1.5.2.** Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which bids are invited should be **either** of the following: -
- 1.5.2.1. Three similar completed works costing not less than the amount equal to 40% of the estimated cost

OR

1.5.2.2. Two similar completed works costing not less than the amount equal to 50% of the estimated cost

OR

1.5.2.3. One similar completed work costing not less than the amount equal to 80% of the estimated cost.

1.5.3. Similar work means, supply, installation, testing and commissioning of TV studio project on turnkey basis.

1.5.4. The bidder should not have been barred or blacklisted by any of the Central/State Government departments/organizations/central PSUs at the time of submission of bid and during last five years. An affidavit in the prescribed format as in annexure 3.8 to be attached along with the technical bid.

1.5.5. The bidder should be a profitable entity in last 3 financial years and should have positive net worth.

1.6 Documents required to be submitted along with the technical bid

1.6.1 As a proof of meeting the eligibility criteria mentioned section 1.5.1 above, the bidder will attach certificate as per format given in section 3.4 duly signed by its statutory auditor.

1.6.2 The bidders shall provide PAN, Sales Tax, Service Tax certificate under their own name. The registration must be in force and shall not expire during the course of agreement.

1.6.3 As a proof of meeting the eligibility criteria as per 1.5.2, the bidders will attach completion certificate issued by competent authority not below the level of Executive engineer or equivalent in the case of Union/State Government or undertakings or PSUs. The completion certificate should contain details like nature of work, cost of the project, period and remarks on the quality of work. In case if the customer happens to be a private company or individual, completion certificate along with TDS issued by the customer for the said project will be attached as proof of executed value of the work.

1.6.4 The bidders must submit Letter of Authorization in original from the OEM for all the equipment offered by them in the format of authorisation attached in **Section-3.**

1.6.5 A copy of the last 3 financial years audited financial statement of the bidder and where ever applicable, of the key principals is to be provided.

- 1.6.6** A copy of last three financial year's Income tax return.
- 1.6.7** List with details (including name of client /channel) of similar work executed in India and abroad, products / services used and approximate value of the project in chronological order.
- 1.6.8** Particulars of the partners or related / inter-linked company in India for sales, installation / commissioning and support (for principals/OEMS) or, principals with whom you have a tie-up (in the case of integrators).
- 1.6.9** Any other detailed information of relevance (such as market shares etc.) with Supporting documents or references.

1.7 Terms and Conditions.

- 1.7.1. Tender fees:** An amount of Rs 500/- (non returnable) towards the cost of tender document is required to be deposited in the form of Demand draft issued in favour of Broadcast Engineering Consultants India Ltd. payable at Delhi/ New Delhi along with the **technical bid**.
- 1.7.2. Earnest Money Deposit (EMD)** Each bidder is required to submit earnest money deposit of **Rs 1,20,000/- (In words: Rs One lakh and twenty thousand only)** EMD should be in the form of **demand draft** from nationalized / scheduled bank in favour of "Broadcast Engineering Consultants India Ltd" payable at New Delhi. The EMD shall be **part of the Technical Bid**. **Bids not accompanied with EMD shall stand summarily rejected.** No interest shall be paid on the EMD amount.
- 1.7.3. Prices:** Prices shall be offered in **Indian Rupees** for supply, installation, commissioning of the entire facility with 12 **months (One year)** of warranty/guarantee of equipment for all equipment **except** for equipment of serial number **3, 4, 9 and 18** as listed in section 2.1 offered by the bidder as per the BOM attached from the date of handing over the facility to CM House, Chhattisgarh.
- 1.7.3.1. The price quoted shall be firm and no price escalation will be permitted.**
- 1.7.3.2.** The price criteria should be on F.O.R., the project site at Raipur, Chhattisgarh. Octroi, if applicable, shall be paid extra on submission of original receipt of octroi payment.

- 1.7.3.3. If no price is offered or left blank against any particular item, it will be treated as free of cost [FOC].
- 1.7.3.4. In case taxes are not quoted separately, the prices will be treated as inclusive of all taxes, duties etc as applicable.
- 1.7.3.5. The actual Sales Tax Percentage (without Form "C") if any, should be specified.
- 1.7.3.6. The price offered by the bidders will include warranty from the respective OEMs for **twelve** months from the date handing over the facility to CM House, Raipur, Chhattisgarh.
- 1.7.4. Consignee:** Equipment shall be consigned to CM House, Raipur, Chhattisgarh.
- 1.7.5. Delivery and commissioning period:** The time-line for the entire work viz supply, installation, commissioning and training of the project will be **10 weeks from the date of award of the contract.**
- 1.7.6. Warranty/guarantee:** Bidders will provide **twelve months** of warranty/guarantee for all the equipment offered by them inclusive of inclusive of installation items, hardware and application software. The warranty period will start on the day of handing over of the facility to BECIL.
- 1.7.7.** After the completion of **twelve months** of warranty, the successful bidder may be required to enter into **annual maintenance contract** inclusive of servicing, material, and replacement etc with **Chhattisgarh Samvad-** separately, if **Chhattisgarh Samvad-** desires so.
- 1.7.8. Liquidity damages:** In case of delay/ failure in submission of Bond or *supply, installation, testing, commissioning and training for establishment of HD Television Studios*, successful bidder shall be liable to pay a penalty @ 0.5% of the order value per week of delay or a part thereof up to maximum value of 10% of order value after which order is liable to be cancelled.
- 1.7.9. Payment terms:** No advance payment for the supply will be made. 80% payment will be made after completing the supply of the equipment in all respects at the site. 20% payment will be released after the successful installation, testing, commissioning, training and satisfactory functioning of the entire system.

1.7.10. Performance Bank Guarantee: Successful bidder shall have to furnish an Performance Bank Guarantee (PBG) (as per format attached at section 3.7) in favour of **Chairman and Managing Director, Broadcast Engineering Consultants India Ltd, BECIL Bhavan, 56-A/17, Block-C, Sector-62, Noida-201301** for an amount equal to 10% of contract value and valid for twelve (12) months after the date of handing over of the work. PBG has to be submitted by the successful bidder within 15 days from the date of issue of work order by BECIL and valid till the warranty period.

1.7.11. BECIL may not accept the terms and conditions proposed/imposed by the bidder in their offer.

1.8 Proposal response format: All bidders are requested to submit technical and commercial bids on the suggestive Bill of Material as indicated in the section 2 and 3 only. Pricing information shall appear only in the commercial bid and the technical bid shall contain all technical details, literature, makes and models of equipment offered for each item, technical compliance statement with reference to the specifications as included in the bid document highlighting any deviations. The technical literature of the offered equipment in CD/DVD format must accompany technical bids.

1.8.1. Technical bid proposed by the bidder is to be prepared on standard 8½" x 11", A4 size paper. Foldouts containing charts, spread sheets, and oversize exhibits are permissible. The pages should be placed in a binder with tabs separating the sections of the proposal with proper index in the first page for easy identification and scrutiny of the offers. All responses, as well as any reference materials presented must be written in English.

1.8.2. Figures and tables must be numbered and referenced in the text by that number.

1.8.3. Proposals shall be based only on the items contained in this RFP and its standard required accessories. The RFP includes addenda and any other material published by BECIL pursuant to the RFP. The bidder is to disregard any previous draft materials and any oral representations it may have received. All responses to the requirements in Sections (list appropriate section) of this RFP must clearly state whether the proposal will satisfy the referenced requirements, and the manner in which the requirement will be satisfied.

1.8.4. The Technical Bid (Part – I) for the RFP should contain following documents

1.8.4.1. Detailed solution for the entire project along with block schematic, signal

flow, timeline, action plan for smooth timely project execution etc as proposed by the bidder.

- 1.8.4.2. Details of the formats in which the bidders are required to furnish the documents are attached in section 3.0.
- 1.8.4.3. Authorization by the OEM of each of the equipment offered by the bidder addressed to Chairman and Managing Director, BECIL, confirming the support to the bidder, comprehensive warranty and guarantee of the products offered for this RFP for **twelve months** after the installation and handover of the facility to BECIL.
- 1.8.4.4. Particulars of the partners and OEMs or principals with whom bidders have official/authorised partnership/distribution ship and documents thereof.
- 1.8.4.5. Data sheets for the items quoted should invariable be attached with the proposal. User manuals should not be attached. Proposals without data sheets of the items quoted will not be evaluated technically and are liable to be rejected.
- 1.8.4.6. An **item wise** compliance statement providing summary of the proposal should also necessarily be submitted as part of the proposal. The compliance statement will indicate whether the offer meets the compliance fully or partially. In case if the compliance for a particular item/equipment is not indicated, it will be assumed that, the offer **does not** meet the compliance and BECIL is free to accept or reject the offer on this basis.
- 1.8.4.7. A compact disc/DVD containing soft copy of all the above documents.

1.9 Method of evaluation and award: The proposals will be evaluated with reference to the technical requirements as specified as well as system completeness and the **commercial bids of only technically qualified bidders shall be opened**. Following criteria will be followed in evaluation and award of the tender.

1.9.1. Price: Rates offered for supply, installation, testing, commissioning, training and incidental services, if any.

1.9.2. Product quality: Field proven industry tested equipment and solutions from renowned and reputed firms from industry with proven track record only will be accepted. Non-standard make/model of equipment without proven and credible local support will disqualify the proposal technically.

- 1.9.3. Compliance to RFP specification.** A compliance statement of the items quoted with respect to the preferred make suggested or its equivalent offered by the bidder in functionality, quantitative and qualitative performance are an essential requirement for technical evaluation. Proposals without adequate compliance statement will be rejected. The bidder will have to convince BECIL that, the product offered is equivalent or better in performance and support over the preferred make and model indicated in the RFP.
- 1.9.4. Compatibility:** System is envisaged to be compatible with the existing setup as well as other quoted equipment in all respects. Up gradation/ Modular design System/equipment be future looking and open to technology up gradations besides capable of adding on facility and features in phased manner.
- 1.9.5. Assurance of supply and support:** With respect to their technical capability, organizational stability, reliability of equipment, ability to meet timelines and past experience of BECIL with Bidders.
- 1.9.6. Service:** After sales service, availability of spare parts/technical support, warrantee offered.
- 1.9.7. Cost:** Cost of the system as proposed and the apparent future financial implication, Operating Expenses and total cost of the ownership.
- 1.9.8. Programming and commissioning experience:** Expertise and experience of the bidder in system integration of projects of similar nature and also their past performance in executing BECIL's projects.
- 1.9.9. Delivery Schedule:** Adherence to the delivery time line proposed by BECIL will be critical parameter for evaluation and final decision.
- 1.9.10. Tax Deduction at Source (TDS):** TDS will be deducted as per rules in force.
- 1.9.11. Training:** The successful bidder has to train BECIL and **Chhattisgarh Samvad-** officials on the operational, troubleshooting and maintenance aspects of all equipments installed in the RFP to ensure its efficient functioning. For this

purpose, the bidder will suggest suitable schedule and duration of training for each category of the staff viz technical and content creators (program staff) and the training will be imparted as per schedule to be given by **Chhattisgarh Samvad**.

2.0 Technical details of the RFP.

2.1. Listing of the equipment.

SL	Description	Qty
1	PTZ camera	2
2	PTZ camera Controller	1
3	Microphones, Lapel type	3
4	Microphones, Handheld type	2
5	Teleprompter	1
6	Non linear editing system	1
7	Monitor	2
8	Audio mixer	1
9	Headphones	1
10	Speaker	1 Pair
11	Hard disk based HD Recorder	1
12	Video Switcher	1
13	On line UPS	1
14	Camcorder with Tripod and all accessories to complete the system	1
15	Lighting fixture with required stand, cables, clamps and all accessories to complete the system	6 Nos
16	Audio Distribution Amplifier	1
17	Digital Distribution Amplifier	1
18	Cables, connectors and all required accessories to complete the studio setup working.	1 Lot

Detailed technical specification

SL	Description	Qty	Products similar to or better
1	<p>PTZ Camera with tripod for mounting: Integrated (PTZ) camera. Tripod mount camera with remote operations. Bidder should provide both wall mount bracket and required tripod for mounting PTZ camera. And also all required accessories to complete the system.</p> <ul style="list-style-type: none"> ➤ Image sensors Sensor size: 1/3" & above, 3-CCD/3-CMOS ➤ Effective pixels 1920 x 1080 ➤ Lens 14x Optical zoom or better ➤ Focus system Auto / Manual ➤ Horizontal resolution 1000 TV Lines ➤ SNR 50dB or better ➤ Output format 1080/50i,576/50i,720/50p ➤ Pan/Tilt operation speed Upto 60°/sec. ➤ Pan range / angle ±160° or better ➤ Tilting range -30° to +90° or better ➤ Preset positions 10 or more ➤ Control interface IP or RS422, Daisy chain capability ➤ Video outputs HD/SD-SDI, analog component, composite ➤ Synchronization Internal/External 	2	Panasonic AW-HE 120, SONY BRC H 900, Canon or similar
2	<ul style="list-style-type: none"> ➤ Remote control panel for above PTZ camera ➤ Protocol and interface: ➤ IP or RS-422 (Compatible with camera) ➤ Adjustment functions in control panel ➤ Pan/Tilt, zoom, focus, iris, gain, pedestal, shutter, white balance (auto, r/b gain), black balance (auto, r/b pedestal, pan/tilt & zoom on joy stick(s), focus knobs / slider etc. ➤ Preset memory ➤ 10 or more. ➤ TALLY/GPI ➤ Tally input x 5 channels (compatible with vision mixer provided) GPI input & output x 4 channels (compatible with vision mix provided/ control panel). 	1	SONY, Panasonic, Canon or similar
3	<p>Microphones: Lavalier type</p> <ul style="list-style-type: none"> ➤ Back-Electret Condenser, clip and grille/windscreen. 	3	Audio Technica,

SL	Description	Qty	Products similar to or better
	<ul style="list-style-type: none"> ➤ Power supply: 12 - 48 V phantom powered ➤ Pick-up pattern : Cardioid ➤ Frequency response 20 - 20,000 Hz \pm 3 dB ➤ Nominal impedance 50 Ω, ➤ Connector 3-pin XLR with integral phantom power adaptor ➤ Cable length : 3 m ➤ Sensitivity : (free field, no load) (1 kHz) 10 mV/Pa \pm 2.5 dB 		Sennheiser or similar
4	Microphones: <ul style="list-style-type: none"> ➤ Handheld type ➤ Transducer (Moving Coil) Dynamic ➤ Polar Pattern Cardioid ➤ Frequency Response 40 Hz - 15 kHz ➤ Output Impedance 150 Ohms (300 Ohms Actual) ➤ Output Connectors XLR-3M Type 	2	Shure, Sennheiser or similar
5	Teleprompter: <ul style="list-style-type: none"> ➤ Display Device Specification ➤ Display Device Size: 15"/17"/19" TFT Monitor ➤ Reading Range : Up to 10 meters ➤ Video Input: VGA/ PAL System Requirement <ul style="list-style-type: none"> ➤ Operating System: Windows XP(with SP3) or (32 bit or 64 bit) Windows 7(32 bit or 64 bit) ➤ Min 2.6Ghz CPU ; 2 GB RAM; 1 Free PCI Express Slot(For Desktop) ➤ Software : Breaking News , Type N Play ,Import RTF/Doc/Html/Txt ,Import Run Downs , Reader Management, Anchor Messages ,Multi Camera Support ,Background Color Selection , Date & Time Display ,Bookmarks , Timer ,Auto Detect and import files ,Run Time Script Editing ,Run-Time Run order Updating ,Block Story , Clip Reference, Multilingual Support , CDAC software for multi language support. ➤ Import .rtf and .doc files into the run orders. USB Hand Control unit ➤ Required cable and media driver should be available to complete the system. 	1	Autoscript, Samvad, Datavideo or similar
6	Non – Linear Editing System <ul style="list-style-type: none"> ➤ Must be a 64 bit application to harness the full power of the Host system. ➤ Open timeline capable of editing mixed formats, Codecs, frame rates and also mix SD and HD Resolutions in Real Time. ➤ A real-time HD to SD timeline conversion. Capable of natively working on different file based formats such as XDCAM, P2 or DSLR media. Should support 3rd party IO options. 	1	Grassvalley(Edius), Apple (FCP), Avid (Media composer)

SL	Description	Qty	Products similar to or better
	<ul style="list-style-type: none"> ➤ Application must have excellent built in search options to locate the Clips. ➤ Should support User customizable Layouts. ➤ Twin window display of Source and Edited sequence. ➤ Compatibility with 3rd party effect Plug-in from Boris, Sapphire, Red Giant etc. ➤ Industry standard Audio plug-in and Audio EQ tools to be part of editing application. ➤ Audio mixing to be possible from the Timeline itself. ➤ Advanced titling options to be part of the Editing Application. ➤ Application must support high end Real-time post Chroma options for Studio Based shoots ➤ Workstation: Single Intel Xeon E5-1650 3.20Ghz 12MB 1600 6C CPU / 1TB Hard Drive/ 16GB DDR3-1600 ECC (4x4GB) RAM/ 16X SuperMulti DVDRW / Windows 7 Pro 64 Bit / NVIDIA Quadro K2000 / 24" full HD LCD/LED dual Monitor ➤ I/O card: PCIe capture and playback in SDI/HD-SDI, HDMI and analog 		
7	Monitor: 32" or better Backlit LED video monitor with HDMI input for multi-view monitoring to be interfaced with above Vision Mixer	2	Sony, Panasonic , Samsung or similar
8	Audio Console: 16 channel , true 7-bus architecture , 2 stereo inputs, 2 stereo returns, talkback facility, +48 phantom power, 12- segment LED metering, 100mm fader, 6 aux sends, 4 of which are pre/post switchable, group and mix inserts, channel direct outputs.	1	Soundcraft, Yamaha or Behringer
9	Headphones: Type Closed-Back, Supra-Aural, Dynamic, Frequency Range 20Hz - 20kHz Impedance 55 Ohms, Sensitivity 91dB, Maximum Input Power 200mW Connectors Gold-Plated 3.5mm Stereo Mini, Plug with 1/4" Adapter	1	AKG, Sennheiser, Beyerdynamics or similar
10	Speakers (Pair) : Studio audio monitors with wall mount bracket	1Pair	Genlec, Boss, JBL, or similar
11	Hard disk based HD Recorder <ul style="list-style-type: none"> ➤ HD/SD SDI input with loop through. ➤ HD/SD SDI and HDMI output ➤ Minimum 320 GB HDD with enclosure ➤ USB & SATA interface ➤ Compatible Audio/Video interface with Camera as well as audio and vision mixer. ➤ XLR Balance Audio input and output ➤ Table top Mounting ➤ Recording format (SD,HD) ➤ Additional two number 320GB HDD 	1	Datavideo , Black magic design or Similar

SL	Description	Qty	Products similar to or better
12	Compact audio video mixing switcher : <ul style="list-style-type: none"> ➤ Video Formats 1080i/59.94, 1080i/50, 720p/59.94, 720p/50, 480i/59.94, 576i/50 ➤ Input/ Output connectors ➤ Video input : SDI BNC (x4), HDMI (x2), DVI-I Reference input BNC (x1) ➤ Video outputs : SDI BNC (x4), DVI-I, composite ➤ Reference output BNC (x1) ➤ Built-in audio mixer ➤ Audio Input: ➤ SDI (Embedded x 4), HDMI (Embedded x 2), XLR and MIC input ➤ Audio Output: ➤ SDI (Embedded x 3) , XLR and headphones ➤ Remote : D-sub 9-pin (x1) ➤ Multi-View function displays Preview (PVW), Program (PGM), and all source images on a single monitor. ➤ In built frame synchronizer ➤ Inbuilt Chroma keyer ➤ All required accessories to complete the system. 	1	Panasonic AG-HMX 100 , SONY MCS-8M or similar
13	UPS System 5 KVA:- 5 KVA, double conversion, On-line type, with isolation transformer in the output, with SMF Batteries to Provide 1 hours back up time	1	Numeric, APC or Emerson
14	Camcorder with Tripod <ul style="list-style-type: none"> ➤ Pick up Device : 3 Chip 1/3-inch type CMOS Image Sensor ➤ Picture Element: Approx. 2.2 million pixel or better ➤ Effective number of pixels: 1,920(H) X 1,080 (V) ➤ Lens Mount : Fixed-type ➤ Sensitivity : F9 typical or better ➤ Horizontal Resolution: 1000 TV lines or better ➤ Signal to Noise Ratio: 50 dB or Better ➤ Preferred shutter Speed (sec.) : 1/100, 1/250, 1/500, 1/1000, 1/2000 Seconds ➤ Iris Control: Auto & Manual ➤ Gain selections: -3dB to + 12dB or better ➤ Zoom ratio : 18x (Optical) or better ➤ Audio & Video Input / Output : ➤ Genlock in : BNC (x1) ,1 Vp-p, 75 Ohms ➤ Video out : BNC (x1) ,1 Vp-p, 75 Ohms ➤ SDI out : BNC x1, HD/SD selectable 	1	SONY PMW 150, Panasonic AG-HPX250 or similar

SL	Description	Qty	Products similar to or better
	<ul style="list-style-type: none"> ➤ HDMI out : HDMI Type A ➤ Built-in LCD monitor: 3.4 inch or better color LCD monitor ➤ Viewfinder: 0.45 -inch color LCD monitor or better ➤ Audio input : XLR 3 pin x2 ➤ Recording Media : SD Memory card / P2 card/ SDHC memory card / SxS card / CF card ➤ Recording Format: MPEG-2, 25/35/ 50 Mbps/ AVC-Intra 35/50/100/ DVCPRO HD/ DVCAM. Should support multi format recordings. ➤ The bidder should provide camera with suitable 20 xs and above fixed lens. Suitable tripod with all essential accessories like soft carry case and lighting kit should be provided. The system should be complete in all respect for ENG operations. 		
15	Lighting fixture: Flicker free two bank cool light, high intensity model, (55 watts x 2 tubes); color 830 Philips /Osram lamps, 5 meter power cord with 3 pin 15 Amps regular plug. The light should have built in dimmer facility for local dimming.	6	Canara , Radilux or similar
	4-leaf barndoor	2	
	Gel filter frame	2	
	wide spread Honeycomb	2	
	Medium spread Honeycomb	4	
	Heavy floor stand - 3 section, The stand should be firm and capable to take the above light load with accessories. Self weight of stand should not be less than 6 kgs.	6	
	3 ways 3 pin 15 Amps regular socket extension board with 10 meter 3core 2.5 sq flexible round copper cables with 15 amps plug.	2	
	55W color 830 fluorescent spares lamps	4	
16	Audio Distribution Amplifier <ul style="list-style-type: none"> • Balance Audio (XLR) for both IN and OUT • Minimum 1 IN 4 OUT 	1	Comcon, Datavideo , Ensemble Design or similar
17	Digital SD/HD-SDI video distribution <ul style="list-style-type: none"> • Reclockable SDI inputs • SD/HD through SDI • Minimum 1 IN and 4 OUT 	1	Comcon, Datavideo, Ensemble Design or similar
18	Cables, connectors and all required accessories to complete the studio setup.	1 Lot	Custom

2.4. Details of the required services.

1. Installation, testing, commissioning and training of the entire project on turnkey basis.
2. The items mentioned without any quantities are required to be filled by the bidder as required for commissioning of the complete project the other essential item(s), if any, which have not been mentioned in this specification, but are necessary to complete the system for its full exploitation, should also be quoted as optional item. The firm should provide the sufficient details of such item(s) to decide about its utility.
3. The tenderer/manufacturer should ensure the completeness of the system in their offer.
4. All the essential accessories and technical manual, service manual should be included in this offer.
5. The offered system should be of **reputed make**, meeting the specification and field proven. The OEM/bidder should enclose the client list and the contact details where similar products have been supplied. **The bidder should essentially enclose the authorization certificate issued by the OEM for the offered products except for serial number 3, 4, 9 and 18 of list of equipment as indicated in section 2.1.** Local service support must be available for optimum upkeep of the system.

3.0 Formats for the submitting documents by bidders.

3.1 Format for providing general information of the bidder.

SL	Particulars	Details of the bidder
1.	Name and Address of the bidder:	
2.	Name and Designation of the concerned officer or authorised person to whom all references shall be made:	
3.	Fax Nos.:	
4.	Phone Nos./ Mobile Nos.:	
5.	e-Mail ID:	
6.	Chief of the organization and his/her contact details viz E-mail ID and Telephone:	
7.	Total No. of employees/ Manpower Strength:	
8.	Type of the Organization (Public Sector/ Limited/Private limited/ Partnership/ Proprietary/Society/Any other):	
9.	No. of the offices/Centres (enclose the list):	
10.	Bidder's Proposal No. and Date:	
11.	Particulars of past experience of similar works furnished:	
12.	Name and address of local representative, if any:	
13.	Any other information that bidder may like to give in order to highlight his bid.	

Place:

Signature of bidder:

Date:

Name in Full:

Designation/Status:

3.2 Format for providing details of works/services of similar nature carried out by the bidder during the last 7 years.

Name of the Bidder:

SL	Name of the Customer	Description of work	Value of work	From	To	The work is done directly or through sub successful bidder	Remarks

Note: Photocopy of Performance Certificate/Completion Certificate of customer in Support of the work mentioned above is required to be enclosed.

3.3 Format for providing details of the on-going projects.

Name of the Bidder:

SL	Full postal address of client and name of Officer-in-charge with Contact details	Description of the work done	Value of contract	Date of commencement of work	Scheduled / revised completion period	Percentage of completion as on date	Expected date of completion	Remarks

3.4 Format for providing details on annual turnover from similar work statement:

Name of the Bidder:

The bidder shall indicate herein his annual turnover from similar work during preceding 3 years based on the audited balance sheet/profit and loss account statement.

Financial year	Annual turnover from similar work (Rs.)

Note:

1. Copies of audited balance sheets with profit and loss account of 3 years shall be submitted along with the Technical bid in support of above entries.

(Statutory Auditor)

3.5 Format of OEM's authorization letter

TO BE PRINTED ON OEM'S OFFICIAL STATIONERY

Date:

MANUFACTURER'S AUTHORIZATION LETTER

To,
Chairman and Managing Director,
Broadcast Engineering Consultants India Ltd,
BECIL Bhavan,
56-A/17, Block-C, Sector-62,
Noida-201301

Subject: BECIL RFP for Supply, installation, testing, commissioning of HD TV studio setup at CM's House, Raipur, Chhattisgarh on turnkey basis

Dear Sir,

We, (*Name and Address of the OEM*) who are reputed manufacturer of Hereby authorize [**bidder's company's name and address**] to bid, negotiate and conclude the contract with BECIL on behalf of us against subject RFP floated on your behalf for SITC of HD studio by Broadcast Engineering Consultants India Ltd at CM House, Raipur, Chhattisgarh for the equipment/items manufactured by us.

We hereby extend **twelve months** of guarantee and warranty service for the goods offered for supply against this invitation for bid by the above after the commissioning of the project.

We also undertake to availability of hardware and software support and spares for a period of **twelve months** from the date of installation and handing over of the equipment for this project.

Yours faithfully,

(Signature with seal)

Name and Designation

3.6 Format for submission of EMD

Whereas _____ (hereinafter called the tenderer”) has submitted their offer dated _____ for the supply of _____ (hereinafter called the tender”) against the purchaser’s tender enquiry No. _____ KNOW ALL MEN by these presents that WE _____ of _____ having our registered office at _____ are bound unto _____ (hereinafter called the “Purchaser”) In the sum of ----- for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 20_____.

THE CONDITIONS OF THIS OBLIGATION ARE:

- (1) If the tenderer withdraws or amends, impairs or derogates from the Tender in any respect within the period of validity of this tender.*
- (2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-*
- (3) If the tenderer fails to furnish the Performance Security for the due Performance of the contract.*
- (4) Fails or refuses to accept/execute the contract.*

WE undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)

Name and designation of the officer

Seal, name and address of the Bank and address of the Branch

3.7 Format for submission of Performance Bank guarantee (PBG)

To

.....

WHEREAS (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract no. datedto supply (description of goods and services) (herein after called “the contract”) AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee; NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand. We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the Day of, 2014.....

(Signature of the authorized officer of the Bank)

.....

Name and designation of the officer

.....

Seal, name and address of the Bank and address of the Branch.

3.8 Format for submission of affidavit certifying that, the bidder is not barred or blacklisted by any of the Central/State Government departments/ organizations/ central PSUs at the time of submission of bid or during previous five years.

Declaration by the bidder

[Affidavit on Non-Judicial Stamp Paper of INR 10 duly attested by Notary/ Magistrate]

This is to certify that We, M/s. _____, in submission of this offer confirm that:

We have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements;

We do not have records of poor performance such as abandoning the work, not properly completing the contract, inordinate delays in completion, litigation history or financial failures etc.

Business has not been barred or blacklisted by any Central/ State Government Department/ Public Sector Undertaking or Enterprise of Central/ State Government at the time of submission of bid or during previous five years.

We have submitted all the supporting documents and furnished the relevant details as per prescribed format.

The information and documents submitted with the tender by us are correct and we are fully Responsible for the correctness of the information and documents submitted by us.

We hereby declare that all the information and statements made in this tender are true and accept that any misinterpretation contained in it may lead to our disqualification.

Signature of the Authorized Person

Name:

Designation:

3.9 Format of authorization letter for signing the bid document on behalf of bidder.

To,
Chairman and Managing Director,
Broadcast Engineering Consultants India Ltd,
BECIL Bhavan,
56-A/17, Block-C, Sector-62,
Noida-201301

Subject: BECIL RFP for SITC of HD TV studio at CM House, Raipur, Chhattisgarh

Dear Sir,

We, [bidder's company's name and address] hereby authorize Sri/Smtto sign, bid, negotiate and conclude the contract with BECIL on behalf of us against subject RFP floated on your behalf for establishment of Television Studio by Broadcast Engineering Consultants India Ltd at CM House, Raipur, Chhattisgarh for the equipment/items supplied by us.

Yours faithfully,

Signature of Mr. _____

(Signature with seal)

Name and Designation of the bidder

Attested

3.10 FORMAT OF COMPLIANCE/EXCEPTION / DEVIATION

This organisation expects the bidders to fully accept the terms and conditions of the tender document. However, should the bidder still envisage some exception/ deviations to the terms and conditions of the tender documents, the same should be indicated here and put in un-priced bid i.e. "Technical Bids". The price effect for withdrawal of such exception(s) to be indicated in the price bids only. If this proforma is left blank, then it would be presumed that bidder has not taken any exception / deviations to the terms and conditions of the tender documents.

Clause/ detailed specification of each of the equipment and services as mentioned in section 2.1 and 2.4 of the RFP document	Full compliance or not	Exception/ deviation taken by Bidder	Remarks

Signature of the Bidder/Tenderer

Seal of the Company -

3.11 Format of the financial Bid (Only for materials)

SL	DESCRIPTION	Qty	Unit price	Tax rate	Tax amount	Unit price inclusive of all taxes	Total amount including taxes
1	PTZ camera	2					
2	PTZ camera Controller	1					
3	Microphones, Lapel type	3					
4	Microphones, Handheld type	2					
5	Teleprompter	1					
6	Non linear editing system	1					
7	Monitor	2					
8	Audio mixer	1					
9	Headphones	1					
10	Speaker	1 Pair					
11	Hard disk based HD Recorder	1					
12	Video Switcher	1					
13	UPS	1					
14	Camcorder with Tripod and all accessories to complete the system	1					
15	Lighting fixture: Flicker free two bank cool light, high intensity model, (55 watts x 2 tubes); color 830 Philips /Osram lamps, 5 meter power cord with 3 pin 15 Amps regular plug. The light should have built in dimmer facility for local dimming.	6					
	4-leaf barndoor	2					
	Gel filter frame	2					

SL	DESCRIPTION	Qty	Unit price	Tax rate	Tax amount	Unit price inclusive of all taxes	Total amount including taxes
	wide spread Honeycomb	2					
	Medium spread Honeycomb	4					
	Heavy floor stand - 3 section, The stand should be firm and capable to take the above light load with accessories. Self weight of stand should not be less than 6 kgs.	6					
	3 ways 3 pin 15 Amps regular socket extension board with 10 meter 3core 2.5 sq flexible round copper cables with 15 amps plug.	2					
	55W color 830 fluorescent spares lamps	4					
16	Audio Distribution Amplifier	1					
17	Digital Distribution Amplifier	1					
18	Cables, connectors and all required accessories to complete the working of studio setup.	1 Lot					

Signature of the authorized Bidder/Tenderer
Seal of the Company

Format of the financial Bid (services only, doesn't include any materials)

SL	DESCRIPTION	Qty	Unit price	Tax rate	Tax amount	Unit price inclusive of all taxes	Total amount including taxes
1	Installation, testing, commissioning and training, project documentation of the entire project on turnkey basis.	1 Job					

Signature of the authorized Bidder/Tenderer
Seal of the Company

Optional Item (This will not be considered for deciding L1)

Format of the financial Bid for Comprehensive Annual Maintenance Charges after warranty period.

SL	DESCRIPTION	Percentage of the total cost	Tax rate
1	Comprehensive Annual Maintenance Charges for first year after warranty period		
2	Comprehensive Annual Maintenance Charges for second year after warranty period		
3	Comprehensive Annual Maintenance Charges for third year after warranty period		
4	Comprehensive Annual Maintenance Charges for forth year after warranty period		
5	Comprehensive Annual Maintenance Charges for fifth year after warranty period		

Signature of the authorized Bidder/Tenderer
Seal of the Company

3.13 Format of the CHECK LIST for technical bid document

SL	Description	Compliance / Confirmation by the Tenderer (Please Tick) √ Yes / No / Pl. Indicate Page No. of the Bid document
1.	Covering Letter	
2.	Check List with Page No.	
3.	Tender fees	
4.	EMD	
5.	General information of the bidder.	
6.	Details of works/services of similar nature carried out by the bidder during the last 5 years.	
7.	Details of the on-going projects.	
8.	Last Three years audited financial statement	
9.	Authorization letter for signing the bid document on behalf of the bidder.	
10.	Solvency certificate	
11.	Affidavit regarding blacklisting	
12.	OEM's Certificates	
13.	Documents pertaining to the eligibility criteria	
14.	Compliance statement	
15.	Un-priced commercial bid	
16.	ISO certificate	
17.	Registration documents of bidder: (MoA and AoA with incorporation certificate in case of Company, Partnership deed in case of Partnership firm, Bye Laws in case of Society and the similar document in case of other entity.	
18.	VAT, ST, PAN, etc.	
19.	Technical data sheets	
20.	Any other documents bidder would like to attach	

Strike out if not applicable.

The bids not complied with the above, will be summarily rejected